ļ	FORM PTO-1390 (REV 11-2000)			US DEPARTMENT OF	COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER						
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	DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLN. NO. (IF KNOWN, SEE 37)											
	CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLN. NO. INTERNATIONAL FILING DATE PRIOR TY DATE CLAIMED											
	PO	CT/F	EP00/02633	/	INTERNATIONAL FILING DATE March 24, 2000	PRIOR PY DATE CLAIMED March 27, 1999						
	TITLE OF INVENTION DEVICE FOR STORING AND TRANSPORTING UNIT LOADS											
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l						Express Mail Mailing Label No. EK706490139US O/US) the following items and other information:						
	1.											
	2.		This is a SECO	OND or SUBSEQ	UENT submission of items concerning	a filing under 35 U.S.C. 371.						
	3.		This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
	4.		The U.S. has b	een elected by the	e expiration of 19 months from the prior	ity date (Article 31).						
A TO THE SAME SHOWN THAT THE SAME SHOWN THAT THE SAME SHOWN THE SAME SHOWN THAT THE SAME SHOWN THE SA	5.		A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. \(\subseteq \) is attached hereto (required only if not communicated by the International Bureau). b. \(\subseteq \) has been communicated by the International Bureau. c. \(\subseteq \) is not required, as the application was filed in the United States Receiving Office (RO/US).									
ija Nj	6.	×	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. has been previously submitted under 35 U.S.C. 154(d)(4).									
	7.	\boxtimes	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made.									
lent lent	8.		An English lan	guage translation	of the amendments to the claims under	PCT Article 19 (35 U.S.C. 371(c)(3)).						
	9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Unsigned)									
	10.	. 🗀	An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(e)(5)).									
	Items 11. to 16. below concern document(s) or information included:											
	11.		An Information	n Disclosure State								
	12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.									
	13.	\boxtimes	A FIRST prelin	minary amendmer	nt.							
	14.		A SECOND or	r SUBSEQUENT								
	15.		A substitute specification.									
	16.		A change of power of attorney and/or address letter.									
	17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.									
	18.		A second copy of the published international application under 35 U.S.C. 154(d)(4).									
	19.		A second copy	of the English lan	nguage translation of the international ap	oplication under 35 U.S.C. 154(d)(4).						
	20.	\boxtimes	Other items of information: Certificate of Mailing									

BASIC NATIONAL FEE (37 CFR 1.492(a)(1) - (5): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO\$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.482) not paid to USPTO but international preliminary examination fee (37 CFR 1.482) not paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims grainary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4)\$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT = \$860 Surcharge of \$130.00 for furnishing the oath or declaration later than 20 30 \$ months from the earliest claimed priority date (37 CFR 1.492(e)). CLAIMS NUMBER FILED NUMBER EXTRA RATE Total claims 20 - 20 = 0 X \$18.00 \$ Independent claims 1 - 3 = 0 X \$80.00 \$ MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$270.00 \$	O USE ONLY								
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TOTAL OF ABOVE CALCULATIONS = \$860									
TOTAL OF ABOVE CALCULATIONS = \$ 860 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.									
SUBTOTAL = \$430									
Processing fee of \$130.00 for furnishing the English translation later than									
1 20 1 30 months from the earliest claimed priority date (37 CFR 1.492(f)).									
TOTAL NATIONAL FEE = \$ 430									
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +									
TOTAL FEES ENCLOSED = \$ 430									
Amount to be: \$ refunded									
charged \$									
a. A check in the amount of \$430 to cover the above fees is enclosed.									
b. Please charge my Deposit Account No. in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1790. A duplicate copy of this sheet is enclosed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.									
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MICHAEL L. DUNN SIGNÄTURE DUNN & ASSOCIATES									
P.O. BOX 10 MICHAEL L. DUNN									
NEWFANE, NEW YORK 14108 NAME									
DATED: Sept 25, 700 (25,330 REGISTRATION NUMBER									

Form PTO-1390 (REV 11-2000)

Page 2 of 2

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Express Mail Mailing Label No. EK706490139US

PATENT **WSP:201 US**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Werner P.T. Camps

International

PCT/EP00/02633

Appln:

International

March 24, 2000

Filing Date:

For:

DEVICE FOR STORING AND TRANSPORTING

UNIT LOADS

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

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Please amend the above-identified patent application as follows:

IN THE CLAIMS

Please delete Claims 1-18 and add new Claims 19-38 as follows:

- 19. Apparatus for storing and transporting piece good articles in U-shaped pockets having a flexible bottom and flexible lateral limb sidewalls which articles tend to distort the sidewalls and a transverse wall connecting internal surfaces of said pockets, the sidewalls being suspended in a support frame in the proximity of an upper edge of the pockets and wherein an attachment is provided for stabilizing a lower end of the pockets.
- 20. Apparatus according to claim 19 wherein the attachment is mounted to the pockets (4, 5) in the proximity of a lateral loading opening (14).

- 21. Apparatus according to claim 19 wherein the attachment is in the proximity of two lower ends of a U-shaped pocket (4, 5).
- 22. Apparatus according to claim 20 wherein the attachment is in the proximity of two lower ends of a U-shaped pocket (4, 5).
- Apparatus according to claims 19 wherein the attachment includes means for providing a tensioning force upon the sidewalls.

 Apparatus according to claim 23 wherein the means for providing a tensioning force
- Apparatus according to claim 23 wherein the means for providing a tensioning force comprises a weight hanging on the pocket (4, 5).

- 25. Apparatus according to claim 23 wherein the means for providing a tensioning force comprises elastic pulling downwardly on the pocket.
- 26. Apparatus according to claim 19 further comprising openings (9) in the lateral limb sidewalls (11, 12) below the bottom and a bar (6) extending transversely through the sidewalls, wherein the weight of the bar provides a downwardly directed tensioning force upon the sidewalls (11, 12) of the pockets (4, 5).

- 27. Apparatus according to claim 26 wherein ends of the bar (6) are accommodated in substantially vertically extending guides (7).
- 28. Apparatus according to claim 26 wherein the bar (6) is biased away from the bottom wall by elastic pulling downwardly on the bar.
- 29. Apparatus according to claim 27 wherein the guides (7) for the bar ends (6) have a securing means to prevent the bar ends from unintentionally sliding out of the guide.
- Apparatus according to claim 19 wherein a transverse portion (21) extends between the
- Apparatus according to claim 19 wherein the transverse portion (21) is elastic.

is:

- 32. Apparatus according to claim 19 wherein at least one holding element (22) is provided on a sidewall (11, 12) in an interior of the pocket.
- 33. Apparatus according to claim 30 wherein at least one holding element (22) is provided on a sidewall (11, 12) in an interior of the pocket.
- 34. Apparatus according to claim 33 wherein an end of the transverse portion (21) is connected to the holding element (22).

35. Apparatus according to claim 34 wherein on both sidewalls in the interior of the pockets

(4, 5) is a holding element (22) extending substantially in the transverse portion (21) extending

between said holding elements (22).

36. Apparatus according to claim 35 wherein the holding elements (22) and the transverse

portion (21) substantially define an H-shape, wherein ends of limbs of the H-shape are

respectively secured to a sidewall (11, 12) of the pocket (4, 5).

Apparatus according to claim 35 wherein the holding elements (22) and the transverse

37. portion (13) are made in one piece from elastic material.

Apparatus according to claim 19 wherein elastic holding elements are mounted to a lower

edge of the U-shaped pockets in such a way that upon downward movement of upper frame

portions holding the pockets, the elastic holding elements prevent the pockets from moving out

of the frame.

Dated: Septenber 25, 2001

MLD/cah

Weber, et al. cc:

Respectfully submitted,

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4/885

09/937475 JCCC RECTORECTION 25 SEP 2001

Apparatus for storing and transporting piece goods

The present invention concerns an apparatus for storing and transporting piece goods, in particular articles whose dimensions in at least one or two mutually perpendicular directions are clearly larger than in the remaining third direction in space, wherein the articles are received in substantially U-shaped pockets which are formed from a flexible web material and which are arranged in a support stand or frame, wherein the pockets are suspended at one or more points in the proximity of their upper edge.

Apparatuses of that kind have already long been known, for example from German patent applications Nos P 41 58 507 and 195 49 166.

In the known apparatuses, the U-shaped pockets are formed by a long web of material which is laid in a plurality of loops which are suspended for example on bars or rods which are arranged at a spacing in succession so that accordingly the web of material is laid transversely over a first bar, extends downwardly and then extends upwardly again in a U-shape, is then laid over the next bar, and so forth. The portions which are hung over the bars can be sewn off in that case so that they form closed loops, through which the carrier bars extend so that the web of material cannot slip on those bars in the longitudinal direction thereof and thus the U-shaped pockets are always of the same length or depth.

In addition those U-shaped pockets can also be formed in many other ways. Examples in that respect are shown in German patent applications Nos 198 26 429.1, 198 31 967.3, 198 57 575.0 and 199 03 297.1 which have not yet been published at the date of the present application. In particular the side walls of the pockets can be extended downwardly so that the result overall is an H-shape, or a plurality of U-shaped pockets which are arranged one above the other can be arranged in vertically mutually superposed relationship and connected together so that the above-mentioned U-shape or H-shape is repeated a number of times and the respective lower pockets are closed at their top side by the bottom of the pocket thereabove. The pockets can also be formed from individual webs of substantially the same shape and size, in each of which the lower end of a web adjacent to a first web is bent over in a J-shape and connected to the corresponding adjacent web, and so forth.

Corresponding apparatuses are used for example in the automobile industry for receiving bodywork parts and installation components such as for example door claddings, side doors, rear doors or tailgate doors and engine compartment hoods and also for many other forms of piece goods. The advantage of corresponding apparatuses is that they are relatively quick and easy to load and unload, that generally no additional packaging and damping material is required if the pockets themselves are formed from a sufficiently soft flexible material, which prevents damage to the delicate surfaces of articles to be transported, and that each article can be individually accommodated in a pocket and thus does not rub against and damage other articles. In that respect, a support stand or frame can simultaneously accommodate a plurality of corresponding pockets in a clearly reviewable

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arrangement and, depending on the respective configuration of the frame or support stand, each pocket is also individually accessible, more specifically either from an open top side or from at least one of the ends of the U-shaped pockets.

It will be appreciated that the frame or the support stand can also be such that it can be folded together to collapse it and, as the pockets comprise flexible web material, they can generally also be easily collapsed down together and folded so that in the empty condition the apparatus can also be transported in a very space-saving fashion.

Nonetheless problems still occur in use of corresponding apparatuses, and the aim of the present invention is to resolve such problems.

It can happen for example, in particular when the articles to be accommodated in the pockets are not of a flat level shape but are of somewhat more complicated shapes, as would be the case for example with engine hoods or the like of motor vehicles, that the pocket, after receiving the article or by virtue of receiving the article, suffers deformation somewhat and as a result adjacent pockets which are still empty also deform in such a way that the loading openings of the pockets become difficult to access, in other words for example an adjacent empty pocket is so deformed at a lateral loading opening thereof or also in its upper region that the insertion of a similar article or also another article into that empty pocket causes difficulties and is only possible by virtue of the loading opening being additionally held open with a hand. Conversely this can also interfere with removal of the individual articles from the pockets.

A further problem of the known apparatuses is also the fact that, when dealing with articles of an irregular shape, even if they are substantially two-dimensional and flat, nonetheless they cannot assume a clearly defined, stable position in the pockets because their lower edge does not afford sufficiently spaced-apart, well-defined contact support points so that such articles slip and tilt in the pockets and as a result a portion thereof possibly projects from one of the lateral loading openings so that there is the risk of damage during transportation of the apparatus with those articles because the articles are not accommodated in a completely protected condition in the pockets.

In comparison with that state of the art, the object of the present invention is to provide an apparatus having the features set forth in the opening part of this specification, with which loading and unloading is facilitated and with which as far as possible the individual articles can also be more securely held in the pockets.

That object is attained in that the pockets additionally have at least one fixing in the region of their lower edge or below said lower edge.

By virtue of the fact that the pockets have at least one fixing in the proximity of their lower edge, the side walls of those pockets which in cross-section define the two limbs of the U-shape can be stressed or tensioned to a greater or lesser degree and are thus also held in shape and at a defined spacing, which does not exclude the articles received in the pockets nonetheless urging the side walls outwardly laterally in one region or the other, as those walls are formed from flexible web material. It is however possible to provide by virtue of that prestressing effect that at least the lateral loading

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openings retain a well-defined shape and minimum size so that access to the articles accommodated in the pockets and conversely loading the pockets with the articles can be implemented without the loading opening additionally being held open.

In this respect, the fixing can be arranged in such a way that the downwardly directed stressing or tensioning of the side walls substantially results in a V-shape in respect of the pocket, but it is also possible for fixing points to be arranged on both sides of the pockets, that is to say on a respective limb of the U-shape or a prolongation portion thereof, in such a way that the U-shape is substantially retained.

Desirably the fixing is disposed in the proximity of a lateral loading opening of the pockets and at the lower edge thereof or beneath the lower edge because the influence of the tensioning force on the shape of the loading opening is at its greatest. It will be appreciated that it is also possible to provide a plurality of fixing points which are distributed over the length of the pocket, in particular also at the opposite end, in order better to hold the pocket generally in shape. In addition loading can also be implemented from both sides of the pocket so that in this case fixing at both ends of the pocket in the lower region thereof also appears desirable.

A particularly preferred embodiment of the invention is one in which the fixing is provided in such a way that it creates a defined stressing or tensioning force. In accordance with a first alternative configuration, that can be effected by that tensioning force being produced by a weight which is suspended at the lower pocket ends.

In specific terms, that can be achieved for example if the limbs of the U-shape of the individual pockets are provided with eyes in the lower region in the proximity of the loading opening, or if corresponding prolongation portions of those lateral limbs of the U-shape to constitute limbs of an H-shape are provided with eyes, in which case a bar can be pushed through a row of pockets which are suitably arranged in side-by-side relationship, through all the eyes which are in alignment with each other, the weight of the bar then defining the tensioning force with which the pockets generally are tensioned in a downward direction and thus held in shape. It will be appreciated that such a bar can also be fixed in other ways than by means of eyes.

In that respect, a particularly preferred configuration is one in which the ends of the bar are received in guides in which the bar overall is substantially vertically movable. More specifically, that makes it possible to compensate for an effective reduction in the length of the limbs of the U-shapes of the pockets, which occurs by virtue of deformation of the pockets, which cannot always be avoided when cumbersome articles are received therein, without excessive stresses occurring in the web material, although in that case the action of the fixing in the form of this tensioning arrangement is nonetheless maintained for the pockets overall.

It will be appreciated that the individual pockets can also be individually prestressed downwardly by the fixing, for example by means of elastic bands. The "bar" can also be formed from a semi-stiff material in order in approximately the course of the lower fixing points to adapt to a row of pockets when they are filled to different degrees or deformed to different extents. In addition the bar

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can in turn also be prestressed downwardly by elastic tensioning bands or other elastic aids such as springs or the like.

The guides for the bar ends are desirably provided with securing devices which prevent the bar ends from accidentally slipping out of the guides or being pulled out of same.

The tensioning of the pocket walls also provides that these lateral pocket walls can be caused to bear more firmly against the articles accommodated therein so that such articles cannot tilt so easily in the pockets even if their lower edge does not have sufficiently spaced-apart, defined support points.

However tilting of articles in the pockets can additionally be prevented by the provision in the pockets of a transverse portion which extends transversely between the pocket walls, more specifically in a position in which an article accommodated in the pocket can be supported against that transverse portion.

The transverse portion is preferably flexible and elastic so that it can also be easily moved away for example when inserting an article. It is also desirable if holding elements extending in the longitudinal direction are also additionally provided at the inward sides of the pockets, at least on one side, with the one end of the transverse portion being connected to such a holding element. That permits still better mobility and adaptation of the transverse portion for clearing the loading opening and for engagement with an article accommodated in the pocket. It will be appreciated that the transverse portion in its various design configurations can also be provided and embodied independently of the fact that a tension is produced in the side walls of the pocket by virtue of the lower fixing. If the transverse portion has a certain minimum stiffness (but nonetheless can be substantially stretchable and flexible), it can also to a certain degree itself perform the function of holding a loading opening open and can thus replace the function of producing the tensioning force in the lateral walls of the pockets. What is preferred however is a combination of both alternative forms, at least for the articles which easily tilt in such pockets.

A particularly preferred embodiment of the invention is one in which there is a respective holding element on each one of the two sides of the pockets in the interior thereof, wherein the transverse portion is fitted with its two ends to those holding elements so that the holding element and the transverse portions overall define an H-shape. The two ends of a limb of the H-shape are fixed to respective ones of two spaced-apart points on one side of a pocket or there pass through the wall of a pocket (for example two such holding elements of directly adjacent pockets could be connected together to form a continuous loop or they can be fixed to the frame or other parts). The transverse portion then connects the two holding elements within a pocket, which are preferably arranged in precisely mutually opposite relationship.

In addition the transverse portion is preferably arranged in displaced relationship from the centre between the two end points of the limbs of the H-shape, whereas the limbs of the H-shape themselves should be of a relatively great extent in the longitudinal direction of the pocket because that then affords a relatively great degree of mobility, for example in the upward and downward direction, for the transverse portion which is fixed to those holding elements which extend in the longitudinal

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direction. The holding elements and the transverse portion can in particular also be fixed releasably to the pockets.

It will be appreciated that the holding elements do not necessarily have to be arranged horizontally along the pocket walls but that they could also be arranged inclinedly and in the extreme case even vertically, although in this respect an only slightly inclined or horizontal arrangement is preferred.

Further advantages, features and possible uses of the present invention will be apparent from the following description of a preferred embodiment and the accompanying drawings in which:

Figure 1 shows a conventional apparatus with a row of U-shaped pockets which are suspended in a support stand,

Figure 2 shows the addition to the conventional apparatus of a tensioning arrangement according to the invention,

Figure 3 is a view of a further alternative form of pocket with an additional securing element,

Figure 4 shows the arrangement of the securing element in relation to an article which is accommodated in the pocket and which is tilt-proof, and

Figure 5 shows the arrangement and use of the securing element in relation to an article which otherwise could not be tilt-proofly accommodated in the pocket.

The conventional apparatus shown in Figure 1 comprises a bottom portion 1 which is in the form of a box and frame portions 2, 3 which are fitted together or pivotably connected to each other and which define a substantially cuboidal frame on which are suspended U-shaped pockets 4, 5 which comprise a flexible web material. In this assembly, the pockets 4 are in the form of individual pockets while the pockets 5 are of an interconnected configuration so that the side wall of the one pocket at the same time also forms a side wall of an adjacent pocket. The upper edges of the pockets 4, 5 can be for example of a loop-shaped configuration, wherein bars which are not visible here extend through those loops and those pockets are arranged and selectively also fixed in guides or on frame elements 3. These individual support bars for the pockets can be for example displaceable in the longitudinal direction of the frame elements 3 but they can also be fixed, more specifically preferably in given positions, for example by means of a clamping device in a guide rail which by way of a lever jointly clamps all bar ends which are accommodated in the guides 3 and which are otherwise freely displaceable.

The individual pockets therefore comprise a left-hand limb 11 of a U-shape, in the form of a side wall of a pocket, a right-hand side wall or a right-hand limb 12 of the U-shape, and a lower transverse portion 13 which extends either horizontally or arcuately. The terms "side wall" or "limb of the U-shape" are used hereinafter synonymously for the limbs of the U-shape which are identified by references 11 and 12. The opening between the two limbs 11, 12 which is delimited downwardly by the transverse portion 13 forms a loading opening and an arrow B indicates how an article is inserted into such a pocket. It is clear in relation to the pockets 5 that the side wall 11 which is the left wall on the referenced pocket is identical to the right-hand side wall 12, in relation to the pocket 5 which is

disposed in front thereof. Nonetheless it makes sense for the description to make a distinction between the left-hand and right-hand walls by referring for example to the inside surfaces of the pockets.

The upper frame elements 3 however can also be removable upwardly, as indicated by an arrow C in Figure 2, in which respect Figure 2 additionally shows the features of the present invention, more specifically in the form of a bar 6 which extends through eyes 9 in a row of lugs or tabs 8 which in turn are sewn to the individual pockets as prolongation portions of the vertically downwardly hanging limbs of the U-shape. The ends of the bar 6 run in vertical guides 7 which are shown in somewhat greater detail in the part of the Figure which is shown separately at bottom right in Figure 2.

The weight of the bar 6 thereby tightens the side walls 11, 12 in particular in the region of the front edges of the side walls 11, 12 and thereby holds the loading opening 14 open and at a spacing which is predetermined by the spacing of the eyes 9 on the bar 6. Optionally, the bar 6 may also have depressions or detent locations by virtue of which the positions of the eyes are fixed at least in the tensioned condition. The bar may however also have a correspondingly rough surface or a surface which adheres firmly to the material of the eyes so that the eyes cannot slip so easily. On the other hand, in many embodiments, easy displacement of the eyes may also certainly be desired, which definitely must not limit the utility of the apparatus, that nonetheless the pockets are in a well-defined fashion tensioned and held in an open condition.

It will be appreciated that a corresponding bar can also be provided on the other side of the pockets and that the tabs or flaps can also extend over the entire length of the side walls. In particular the tabs 8 can also comprise an elastic material or they can be replaced by elastic bands or strips to which corresponding eyes 9 are fixed. The use of such an elastic suspension arrangement means that it is possible to provide for better distribution of the forces which under some circumstances become unequal at the individual eyes by virtue of the fact that the pockets are loaded in different ways, that is to say they are either partially empty or they are loaded with different articles.

As can be seen in the partial view at bottom right in Figure 2 the guides 7 are closed or closable at their top side so that the bars 6 cannot be readily lifted out upwardly but still remain vertically movable. In addition rubber bands or the like can also bias the bar 6 downwardly.

It will be appreciated that instead of being suspended on a movable bar, each pocket can also be individually fixed with elastic strips or bands to fixing points in the lower frame or housing portion 3.

Figure 3 shows yet again another alternative form of a pocket which in this case is formed from two side walls 11', 12' which are simple, separate rectangular webs which are suspended with their two upper corners by way of eyes 15 on two bars 16. The two side walls 11', 12' are connected together by a transverse portion 13' which in turn is of a U-shaped configuration with relatively short limbs which comprise a flexible sewable material and are sewn to the side walls 11', 12' while the actual transversely extending portion of the connecting element 13 has a semi-stiff inlay and thereby defines a fixed minimum spacing between the side walls 11', 12', even if in principle the flexible side walls 11',

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12' would permit a tilting movement and thus also would permit the side walls 11', 12' to move towards each other.

It is also possible to see the bar 6 in the lower region which extends there through the eyes 9 which are arranged in the lower corner region of the rectangular webs 11', 12'.

In addition, it is possible to see in this embodiment a securing element 20 in the form of elastic bands which are connected together in an H-shape. More specifically the securing element 20 comprises a transverse portion 21 and two symmetrically arranged longitudinal portions 22.

The transverse portion 21 is fixed with its two ends to the longitudinal portions 22, more specifically in markedly displaced relationship towards the end of the loading opening 14. Desirably the portions 21, 22 are produced in a continuous configuration from an elastic material such as for example a Viton band or a rubber band or cable, and the elements 21, 22 could be for example of a cross-section of some mm².

The ends of the limbs 22 of the H-shape are fixed to or passed through the side walls 11', 12' in the proximity of the front and rear edges thereof, they could for example be connected in the form of loops to corresponding holding elements or limbs 22 of H-shapes in adjacent pockets.

It is also possible to see at the rearward opening of the U-shaped pocket a further transverse or abutment portion 17 which serves as a support portion or abutment for an article to be inserted therein.

Figures 4 and 5 diagrammatically show the possible use of the pocket employed in Figure 3 and the securing element 20 arranged therein. In this respect, the upper part of each of Figures 4 and 5 only shows the pocket from the side in regard to its contour while the lower part thereof shows a perspective view of an article to be accommodated only together with the securing element 20.

The example in Figure 4 diagrammatically shows a lateral door filling structure of a motor vehicle which is of substantially rectangular outline and which is simply inserted beneath the securing element 20 into the opening 14 of the pocket until it bears against the rearward transverse portion 17 which is also additionally shown in Figure 4. Because of the long straight lower edge of the door cladding 25, this component is securely accommodated in the pocket without the need for any additional supports.

The example of Figure 5 however shows another door cladding 26 which for example shows a door which is heavily cut-away in the lower region (for example in front of a wing or fender). In that case the door cladding 26 is to be transported in the pocket as far as possible in the orientation illustrated so that it is in precisely that orientation that it can be removed from the pocket and fitted directly without having to be first turned in a complicated procedure. The lower edge of this door cladding 26 however is so short that the cladding does not stand in a stable condition on the bottom of the pocket but can very easily tilt, particularly when swinging transportation movements are involved.

In this respect, the end which is shown farthest to the left in Figure 5 could project out of the front opening of the pocket and suffer damage. In this case therefore this door cladding is firstly inserted in the same manner as was illustrated in relation to Figure 4, that is to say until the right-hand

edge of the door cladding comes to bear against the rear abutment or abutment portion 17. Then, the person who pushed the door cladding into the pocket can use a hand to grip the transverse portion, pull it forwardly over the top left corner of the door cladding 26 by virtue of the elastic nature of the holding elements 22 and engage the transverse portion 21 in position under that front corner. In that way the securing element 20 holds the door cladding 26 securely and firmly in the position illustrated in Figure 5 without the door cladding 26 being able to slip or tilt.

The elastic holding elements at the lower edge of the U-shaped pockets are preferably mounted in such a way that upon downward movement of the upper frame portions holding the pockets, they prevent the pockets from moving out of the frame.

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CLAIMS

- 1. Apparatus for storing and transporting piece goods, in particular articles whose dimensions in at least one or two mutually perpendicular directions are clearly larger than in the remaining third direction in space, wherein the articles are received in substantially U-shaped pockets (4, 5) which are formed from a flexible web material and which are arranged in a support stand or frame (2, 3), wherein the pockets (4, 5) are suspended at one or more points in the proximity of their upper edge, characterised in that the pockets (4, 5) additionally have at least one fixing in the region of their lower edge or below their lower edge.
 - 2. Apparatus according to claim 1 characterised in that the fixing is mounted to the pockets (4, 5) in the proximity of a lateral loading opening (14).
 - 3. Apparatus according to claim 1 or claim 2 characterised in that the fixing is in the proximity of the two lower ends of a U-shaped pocket (4, 5).
 - 4. Apparatus according to one of claims 1 to 3 characterised in that the fixing of the lower edge of the pockets (4, 5) is afforded with a defined tensioning force.
 - 5. Apparatus according to claim 4 characterised in that the defined tensioning force is given by the weight of an article hanging on the pocket (4, 5).
- 6. Apparatus according to claim 4 or claim 5 characterised in that the tensioning force of the fixing is produced solely or additionally by an elastic aid.
 - 7. Apparatus according to one of claims 4 and 5 characterised in that the lateral limbs (11, 12) of the U-shape of the U-shaped pockets (4, 5) or a downwardly directed prolongation portion thereof have respective openings or eyes (9) through which is arranged a bar (6) which extends transversely through the pocket and the weight of which defines the downwardly directed tensioning force at the side walls (11, 12) of the pockets (4, 5).
 - 8. Apparatus according to claim 7 characterised in that the ends of the bar (6) are accommodated in substantially vertically extending guides (7).
 - 9. Apparatus according to claim 7 or claim 8 characterised in that the bar (6) is biased away from the pockets (4, 5) through the lower eyes (9) or openings by elastic aids such as for example rubber bands or the like.

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11. Apparatus according to one of claims 1 to 10 characterised in that in their interior the pockets (4, 5) have a transverse portion (13) extending transversely between the pocket walls.

12. Apparatus according to claim 11 characterised in that the transverse portion (21) is flexible and preferably elastic.

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13. Apparatus according to claim 11 or claim 12 characterised in that there is provided at least one holding element (22) which extends substantially in the longitudinal direction along a pocket wall (11, 12) in the interior thereof and which is also preferably flexible and elastic.

14. Apparatus according to claim 13 characterised in that an end of the transverse portion (21) is connected to the holding element (22) which extends in the longitudinal direction.

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15. Apparatus according to claim 13 or claim 14 characterised in that provided on both sides in the interior of the pockets (4, 5) is a respective holding element (22) extending substantially in the longitudinal direction, the transverse portion (13) extending between said holding elements (22).

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16. Apparatus according to claim 15 characterised in that the holding elements (22) and the transverse portion (13) substantially define an H-shape, wherein the ends of respective ones of the limbs of the H-shape (22) are secured to two points of a wall (11, 12) of the pocket (4, 5) or pass through same there.

Apparatus according to claim 15 or claim 16 characterised in that the holding elements

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Apparatus according to one of claims 1 to 17 characterised in that elastic holding 18. elements are mounted to the lower edge of the U-shaped pockets in such a way that upon downward movement of the upper frame portions holding the pockets they prevent the pockets from moving out of the frame.

(22) and the transverse portion (13) are made in one piece from elastic material.

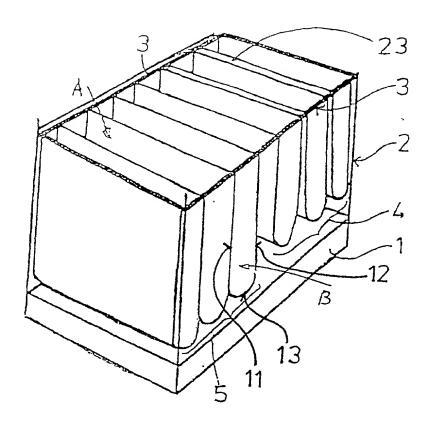
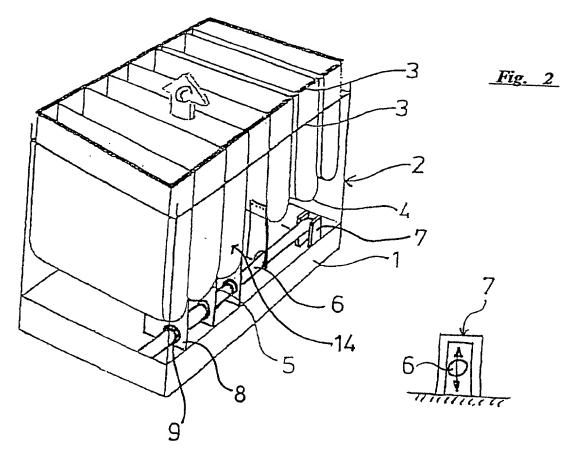


Fig. 1



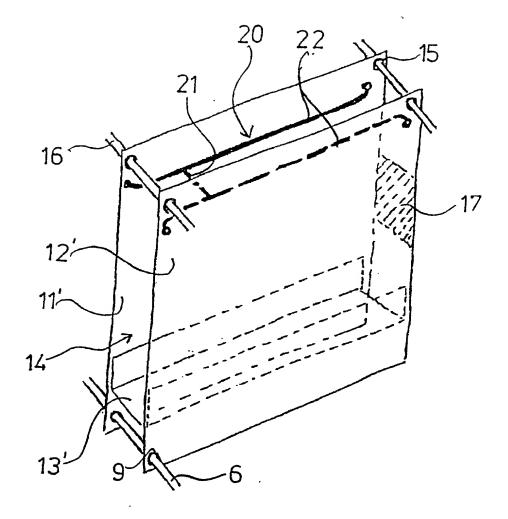


Fig. 3

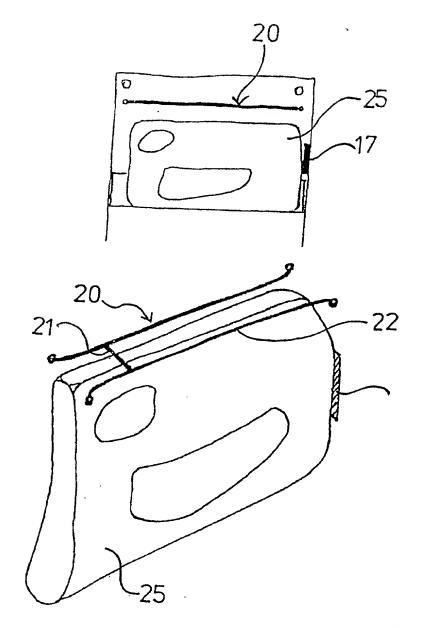


Fig. 4

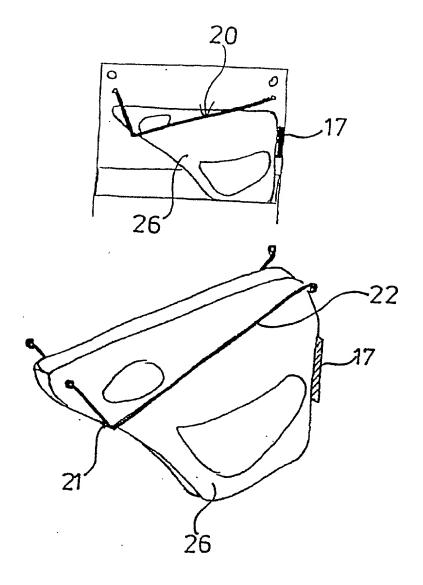


Fig. 5

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DECLARATION FOR UTILITY OR

PATENT APPLICATION					First Named Inventor	CAMPS, Werner P.T.			
1	1.5			1.63)	COMPLETE IF KNOWN				
_				,	Application Number	09/937,475			
	Declaration Submitted	OR	\boxtimes	Declaration Submitted after Initial	Filing Date				
l	with Initial Filing			Filing (surcharge (37 CFR 1.16 (e)) required)	Group Art Unit				
	rmng				Examiner Name				
As a	below named	inventor,	I her	reby declare that:					
My:	residence, mailir	ng address	s, and	d citizenship are as stated below	w next to my name.				
I bel nam	ieve I am the or es are listed belo	iginal, firs ow) of the	st and	sole inventor (if only one nar ect matter which is claimed an	ne is listed below) or an original, first d for which a patent is sought on the	t and joint inventor (if plural invention entitled:			
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	DEVICE FOR STORING AND TRANSPORTING UNIT LOADS								
the s	pecification of v	which:							
П	is attached he								
		1010							
•	OR								
\boxtimes	was filed on N	Aarch 24,	, 2000	as PCT International Applica	ation Number PCT/EP00/02633				
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.									

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO		
199 14 027.8	Germany	March 27, 1999				

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

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ry U.S.A.		Telephor	ne 71 6	<u>6-433-166</u>	1		Fax _716-433-1665	
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Application Number	09/937,475				
Filing Date					
First Named Inventor	Werner Philomena Theophiel Camps				
Title	Device for Storing and Transporting Unit Loads				
Group Art Unit					
Examiner Name					
Attorney Docket Number	WSP:201 US				

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